EFPO Synthetic pleated filter cells

Description

Synthetic corrugated filtering cell with U section frame in galvanized steel, double corrugated net in electro-welded galvanized wire that supports the polyester synthetic fiber filtering fabric.

Characteristics

Material : galvanised steel support frame 6/10 thick.
Electrowelded galvanised wire mesh 12x24x0,8.
EFRF 200 g/m filter media.

Use

Pre-filtration in air ventilation and air conditioning systems.
The corrugated version guarantees a greating filtering surface with the same size.
The proportion between the filter surface and the front surface is 2:1 with 48 mm thickness and about 3:1 with 98 mm thickness.

On demand

Non-standard front dimensions.
Special thicknesses from 40 to 200 mm.

Operating data

Pa : pressure drop in Pascal.

Caratteristiche tecniche e limiti di impiego	
CLASSE di efficienza secondo EN ISO 16890:2016	ISO COARSE
Classe di efficienza (CEN EN779-2012):	G4
Efficienza gravimetrica media:	90%
Grammatura tessuto filtrante	200 gr/mq
Temperatura massima di impiego:	100°C
Umidità relativa:	100%
Perdita di carico iniziale:	43Pa
Perdita di carico finale consigliata:	250Pa
Perdita di carico massima:	400Pa
Capacità di raccolta polvere:	351gr/mq
Velocità frontale consigliata:	1,5m/s
Rapporto superficiale filtrante/superficie filtro:	2:1 per lo spessore 48mm
	3:1 per lo spessore 98mm
Reazione al fuoco (DIN53438/3):	CLASSE F1
Reazione al fuoco NF-F-16-101	M1

Dimensions and price list

Dimensions are expressed in mm

Item normally available from stock

model	filter cell EFPO	filter cell EFPO
	thickness 48	thickness 98
	euro	euro
400x400	14,48	21,38
500x400	14,48	21,38
625x400	16,35	23,89
500x500	16,35	23,89
625x500	18,36	27,68
592x592	20,23	30,12
592x287	14,48	21,38
490x592	18,36	27,68

How to calcolate the filter capacity:

Q (mc/h) = A (mq) x V (m/s) x K x 3600 **A**: filter surface, **V**: air velocity and **K:** moltiplication constant (equal to 2 for thickness 48 mm and equal to 3 for thickness 98 mm). **EXAMPLE OF CALCULATION OF THE AIR FLOW CAPACITY OF A 400x400 FILTER, 48 mm THICKNESS:** Q = (0,4 x 0,4) x 1,5 x 2 x 3600 = 1728 mc/h